



Title: SYSTEM AND METHOD FOR RANGE CHECK ELIMINATION VIA ITERATION
SPLITTING IN A DYNAMIC COMPILER

Application No.: 09/872,458 Docket No.: SUNMP018 Inventor(s):CLICK et al.

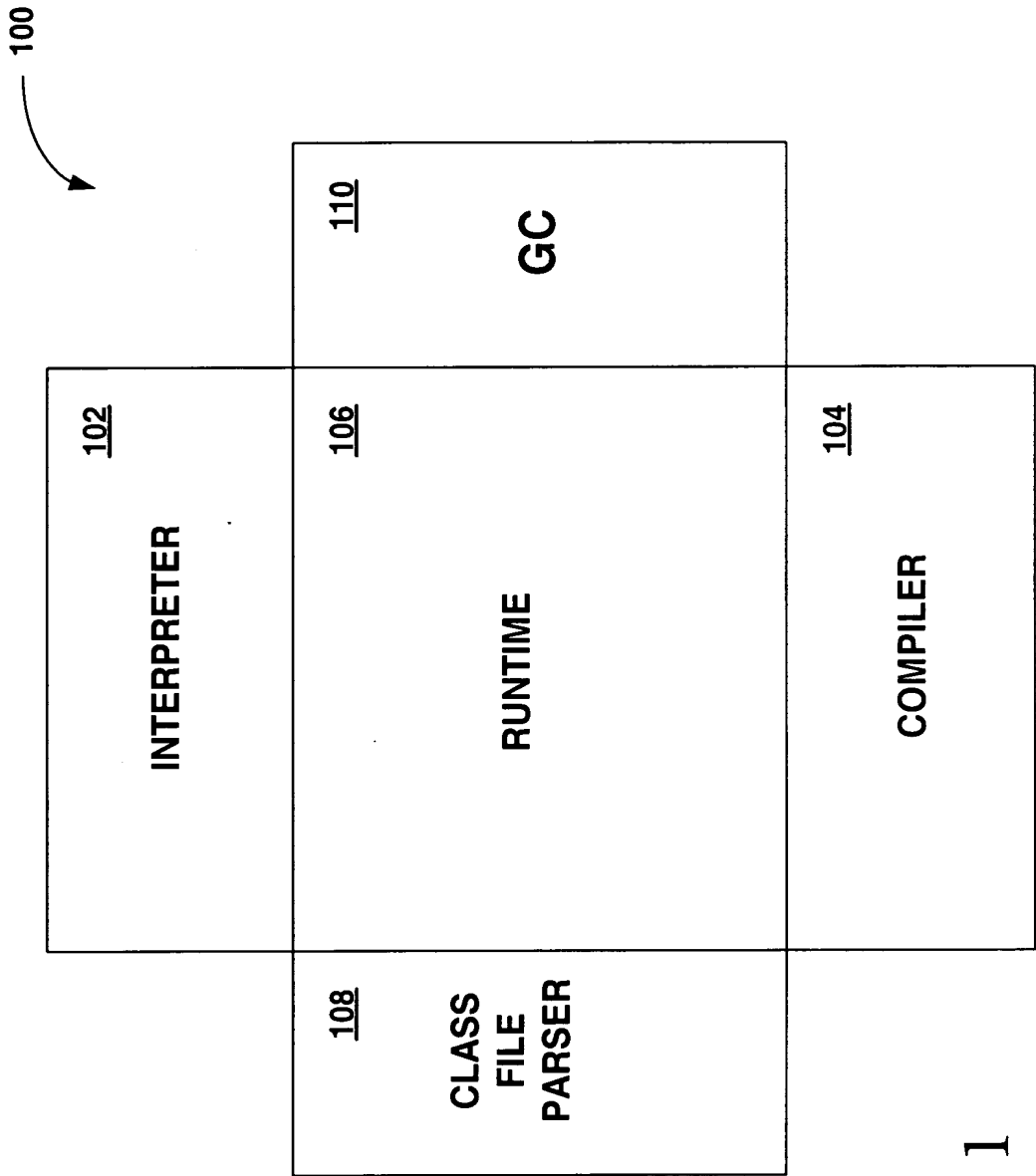


FIG. 1

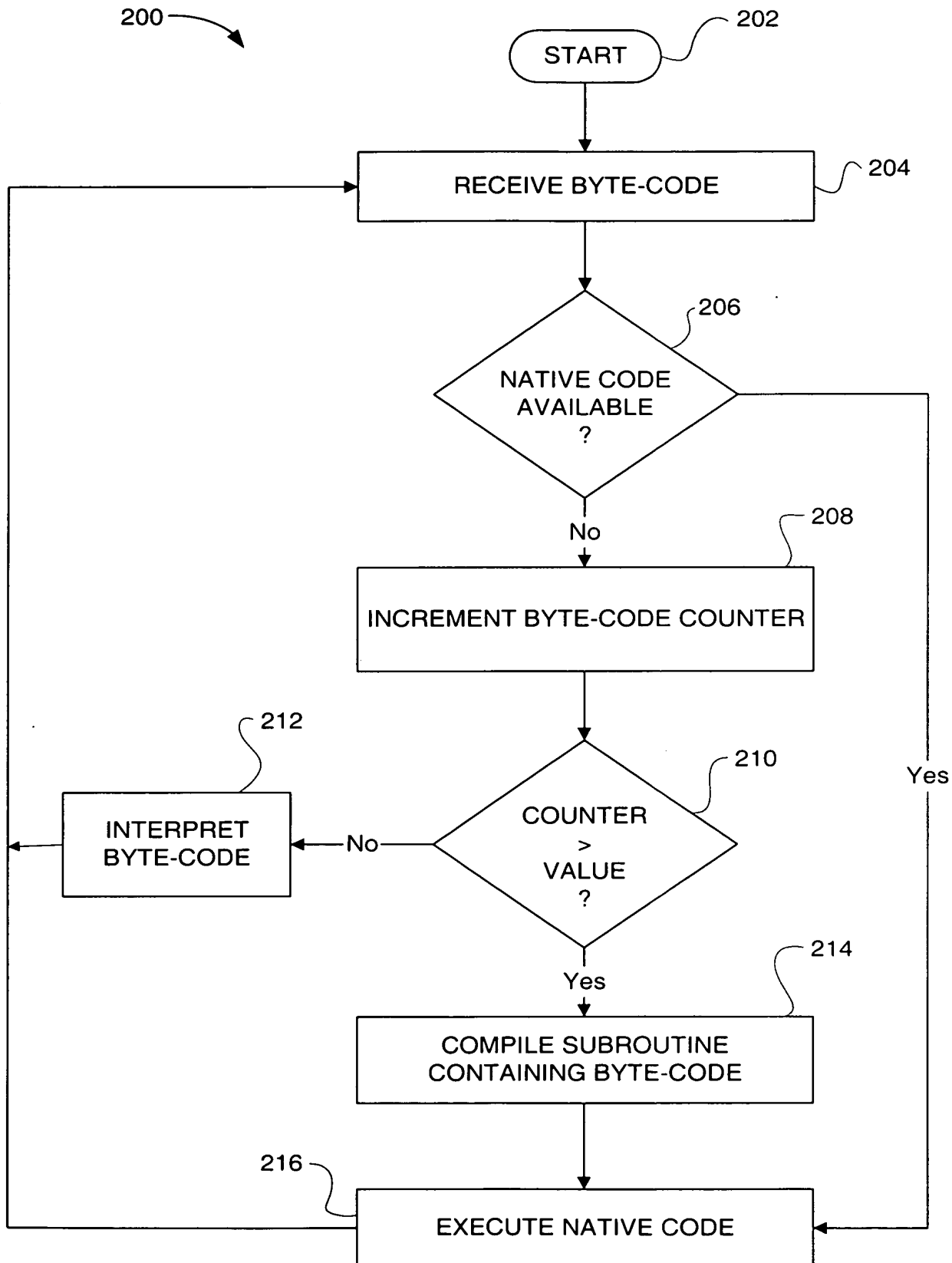


FIG. 2

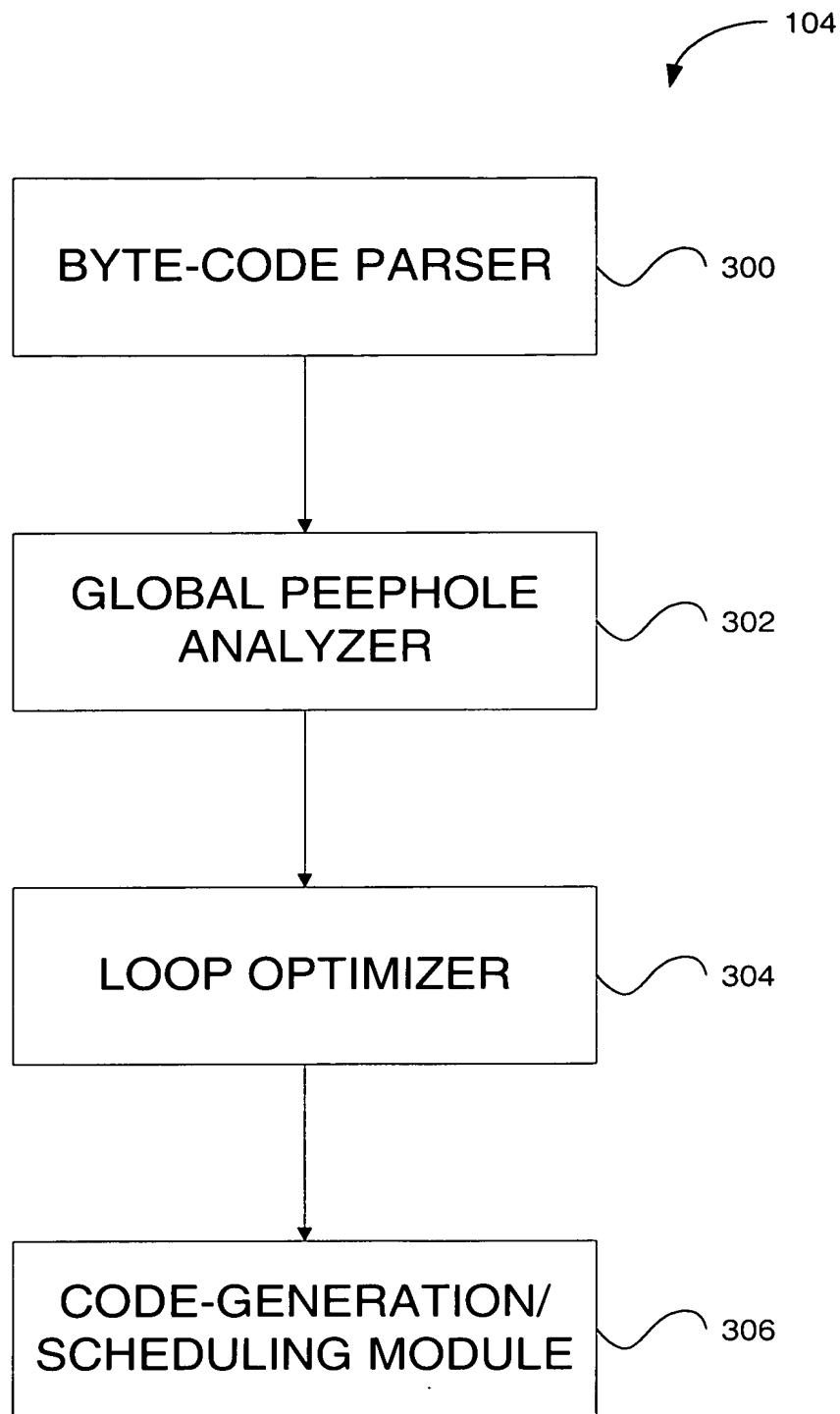


FIG. 3

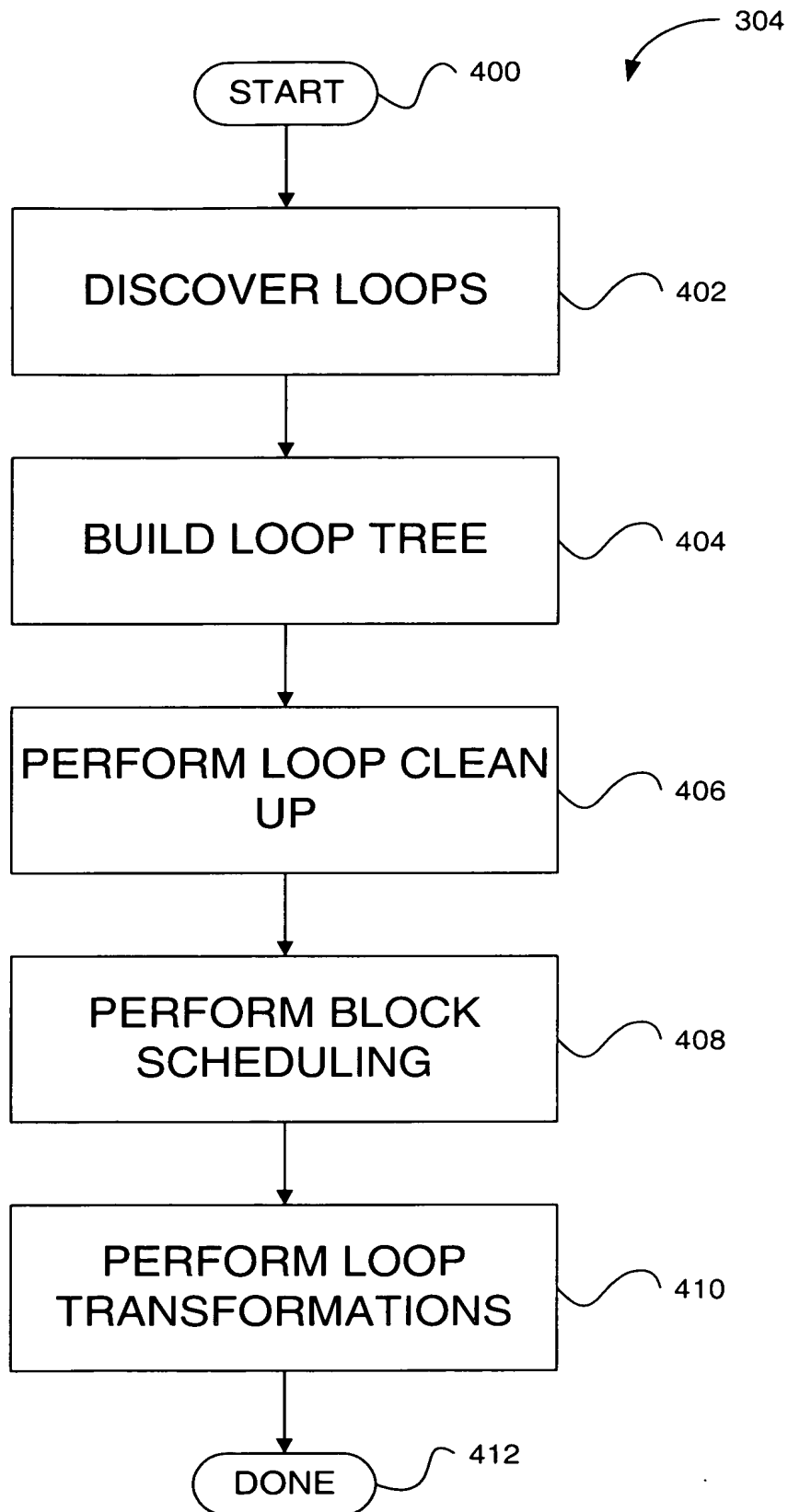


FIG. 4

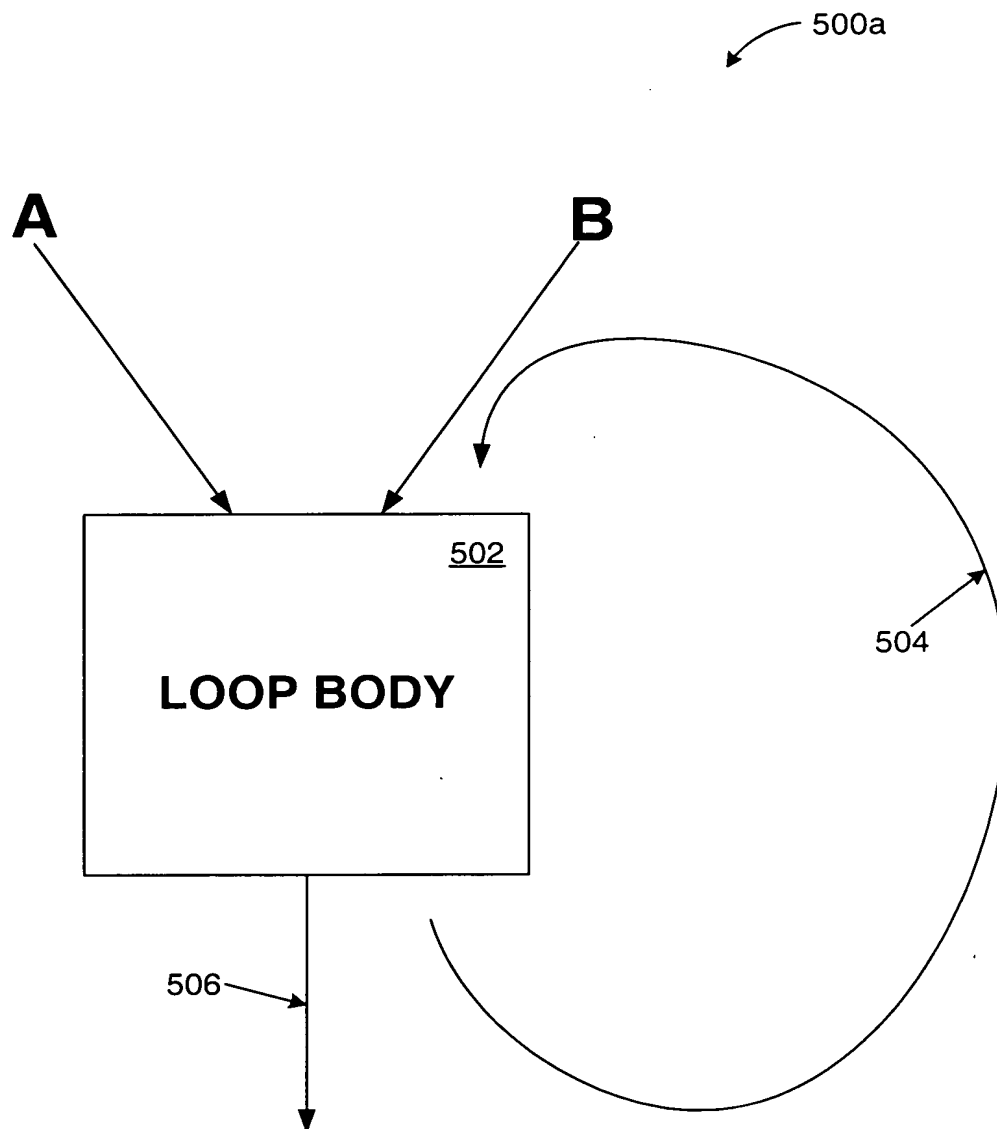


FIG. 5A



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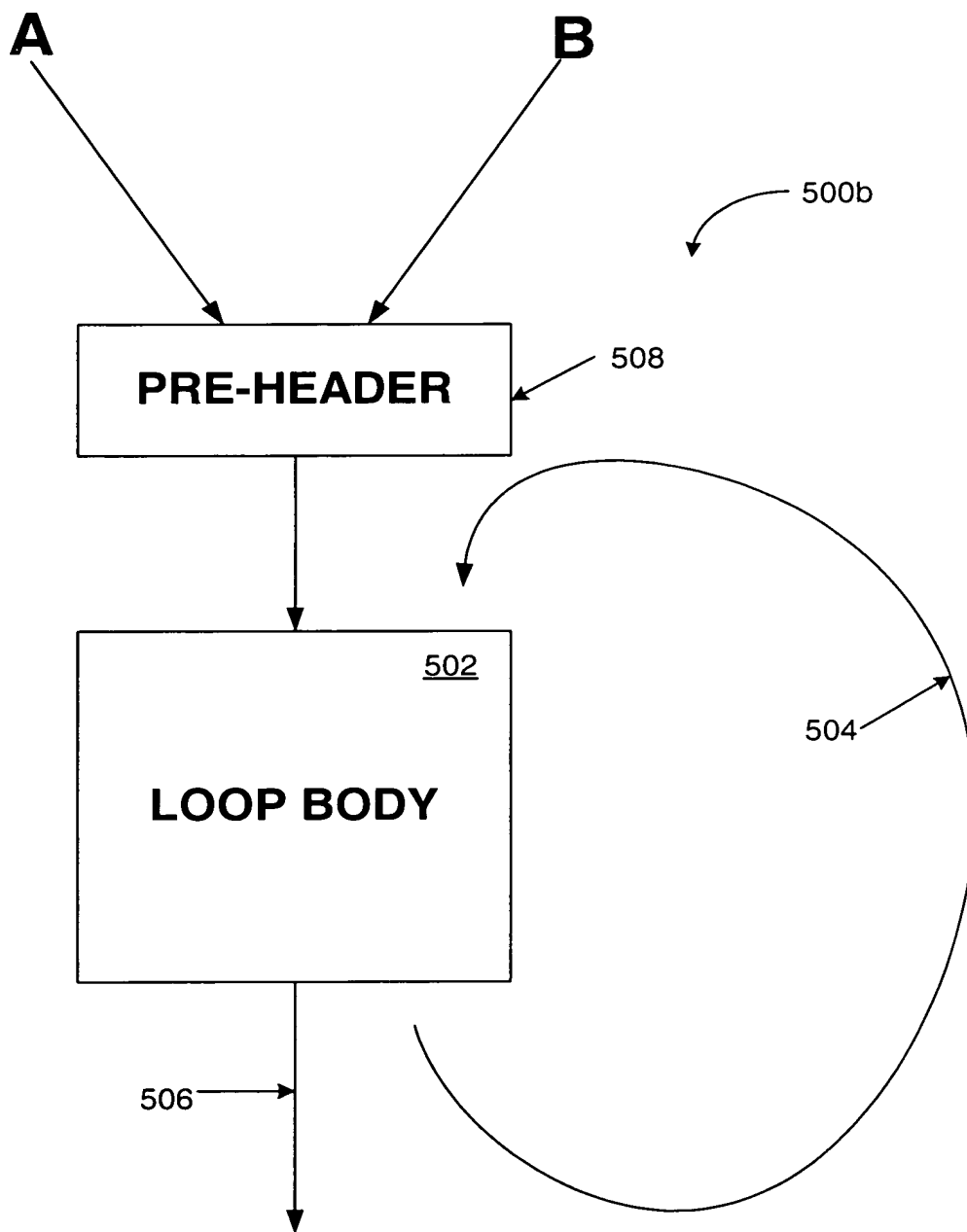


FIG. 5B

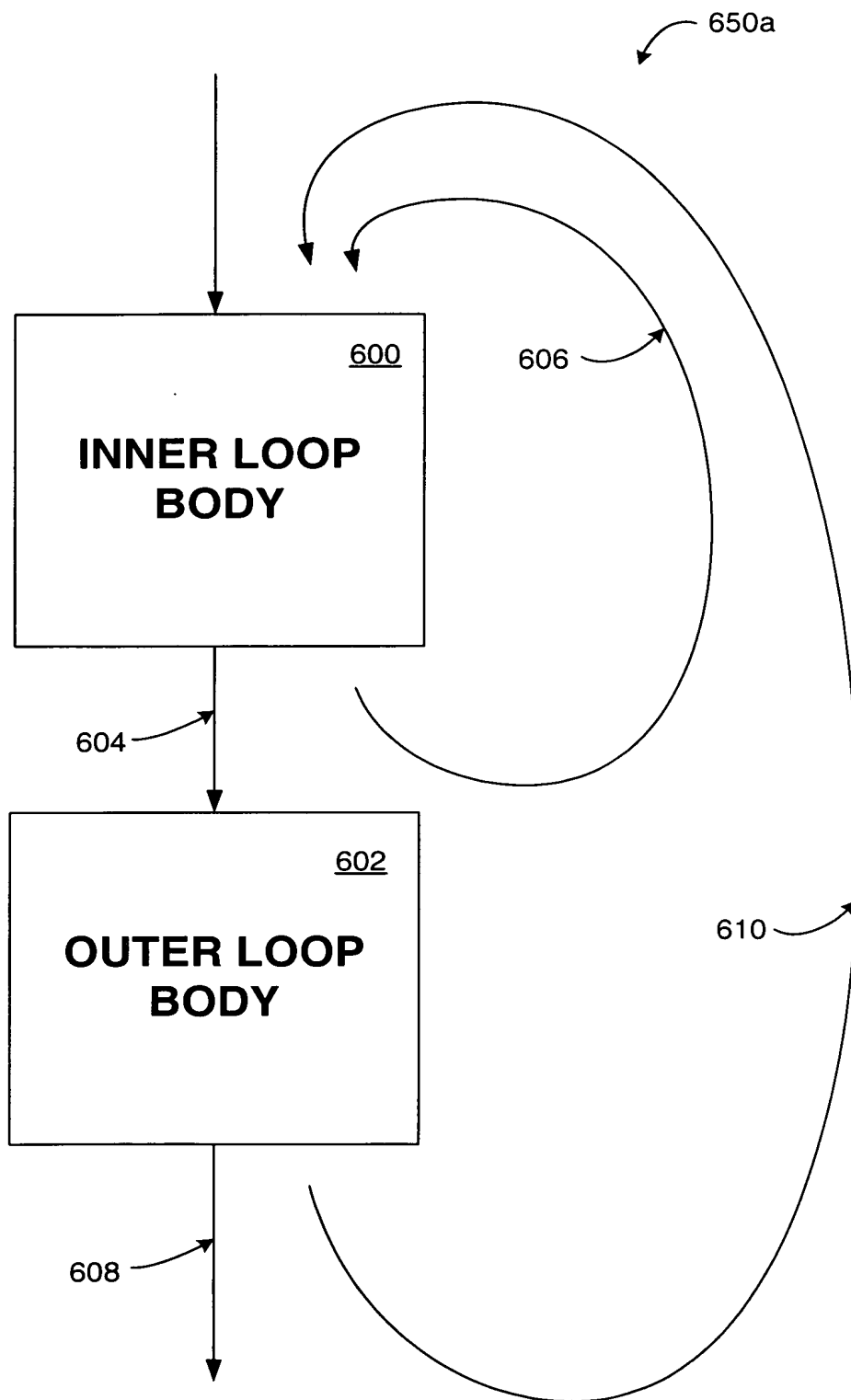


FIG. 6A

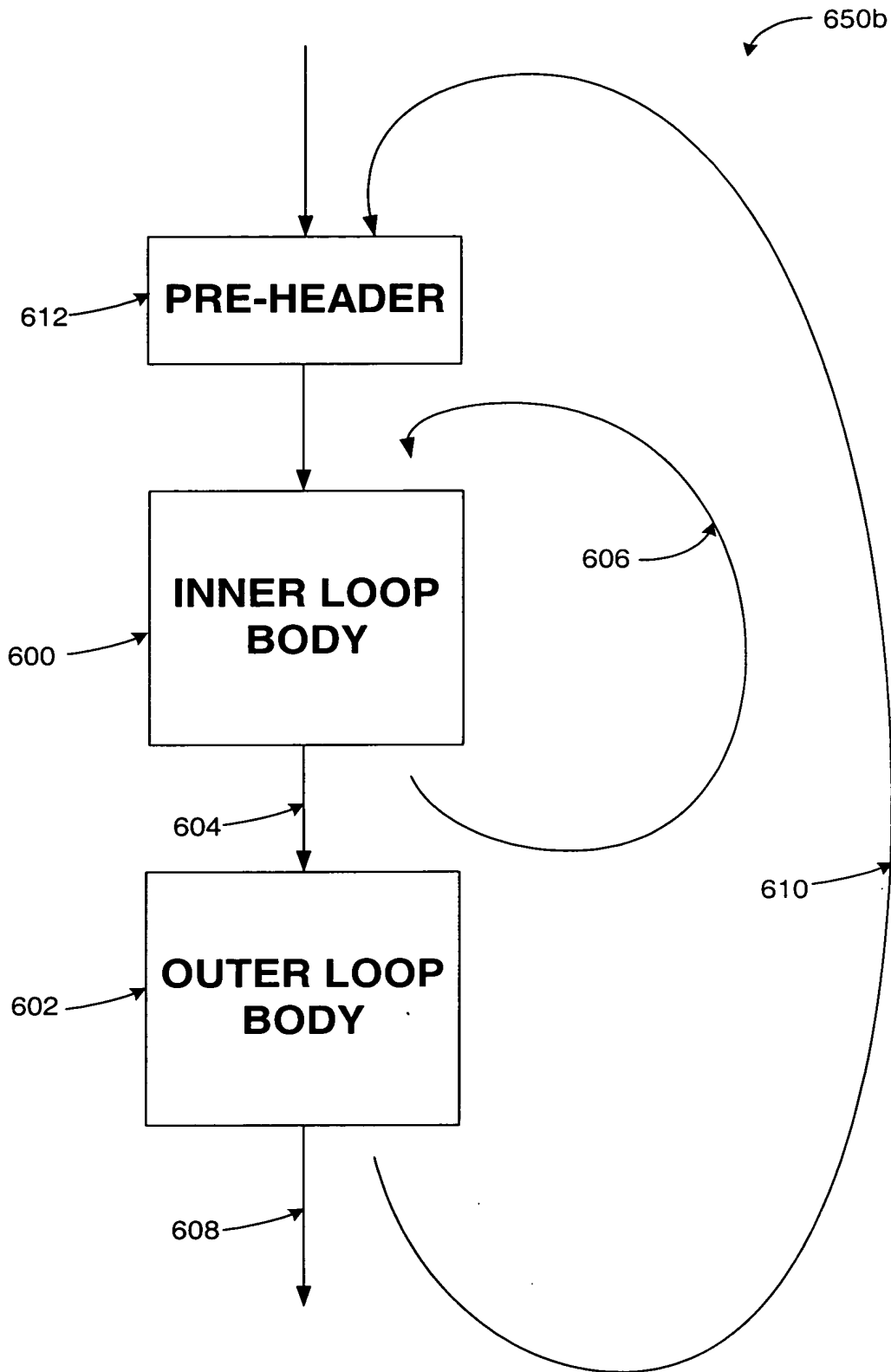
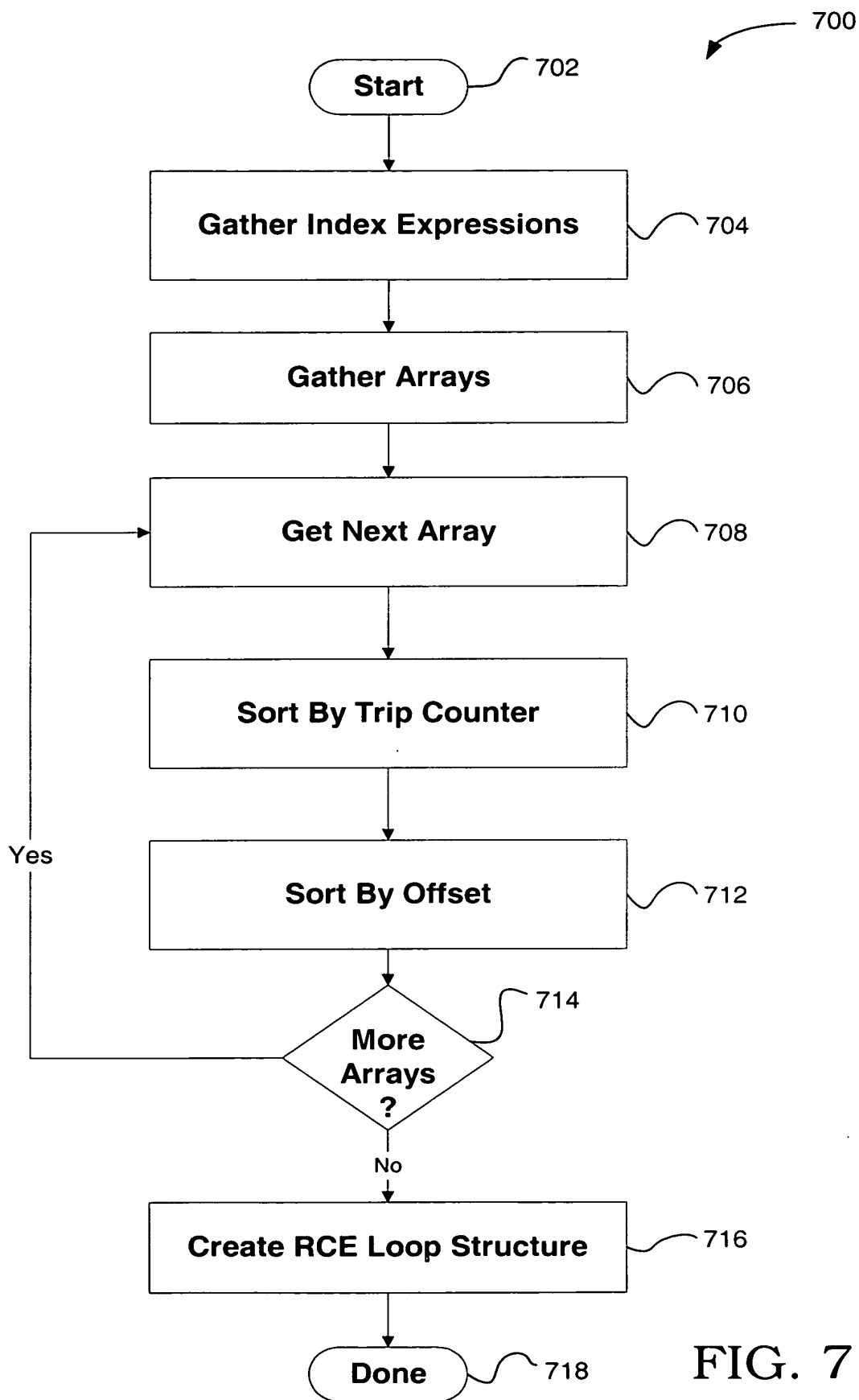
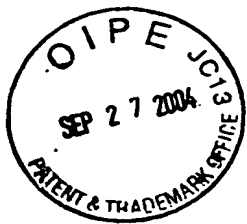


FIG. 6B



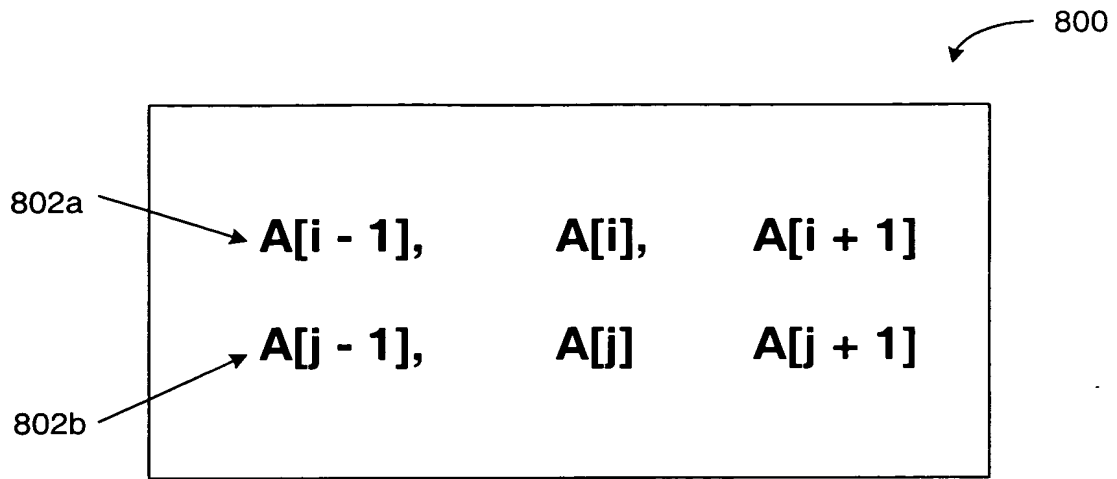
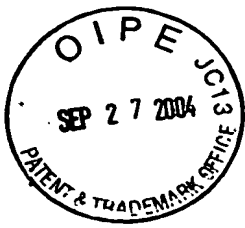


FIG. 8

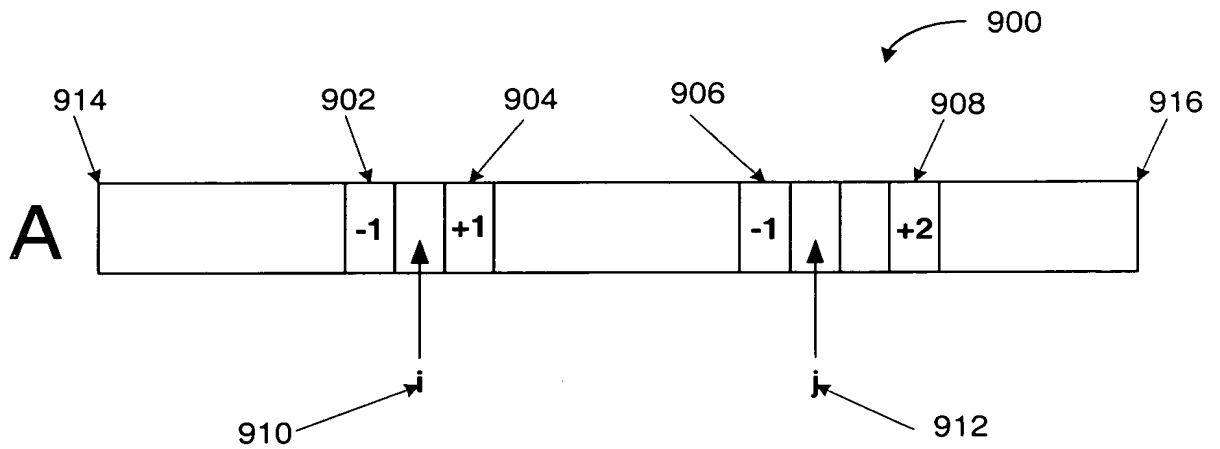


FIG. 9



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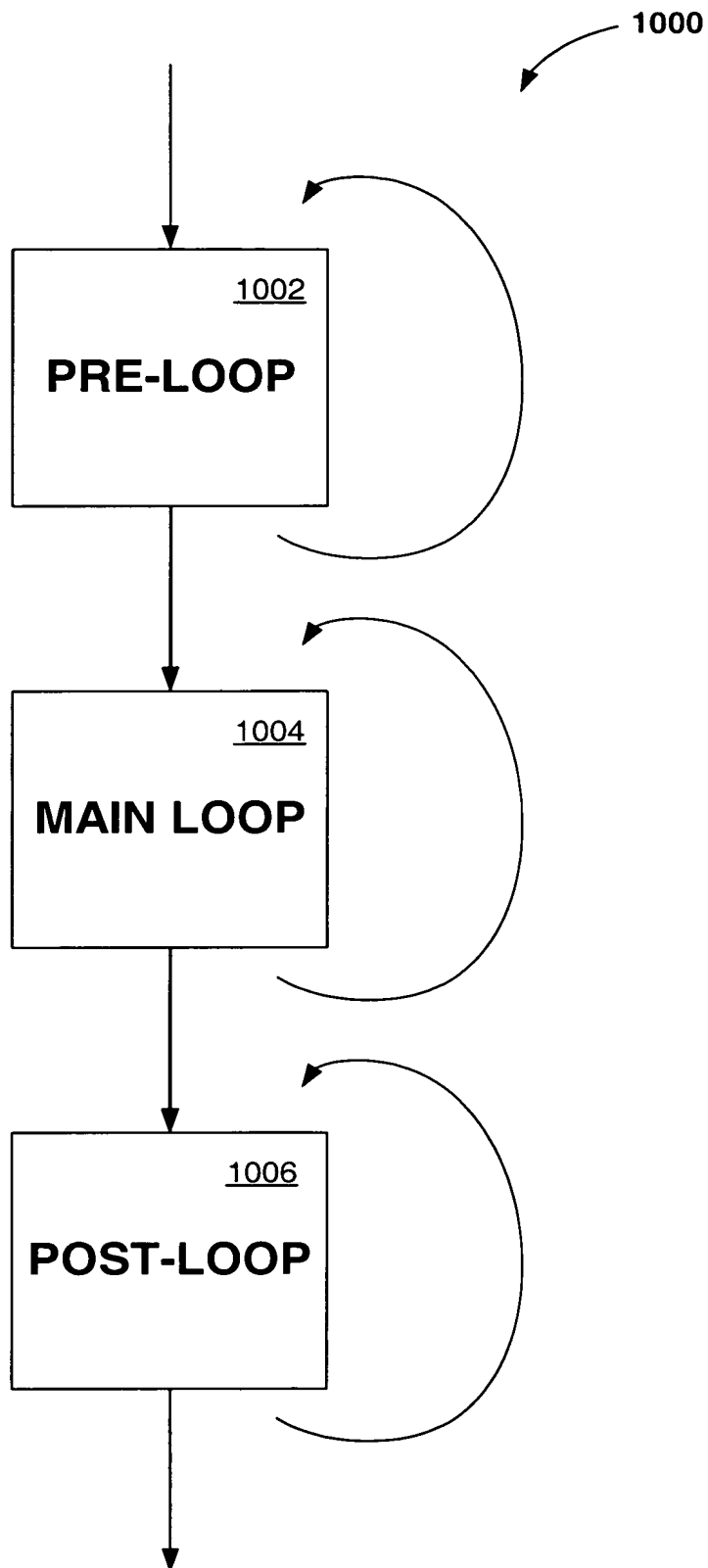


FIG. 10

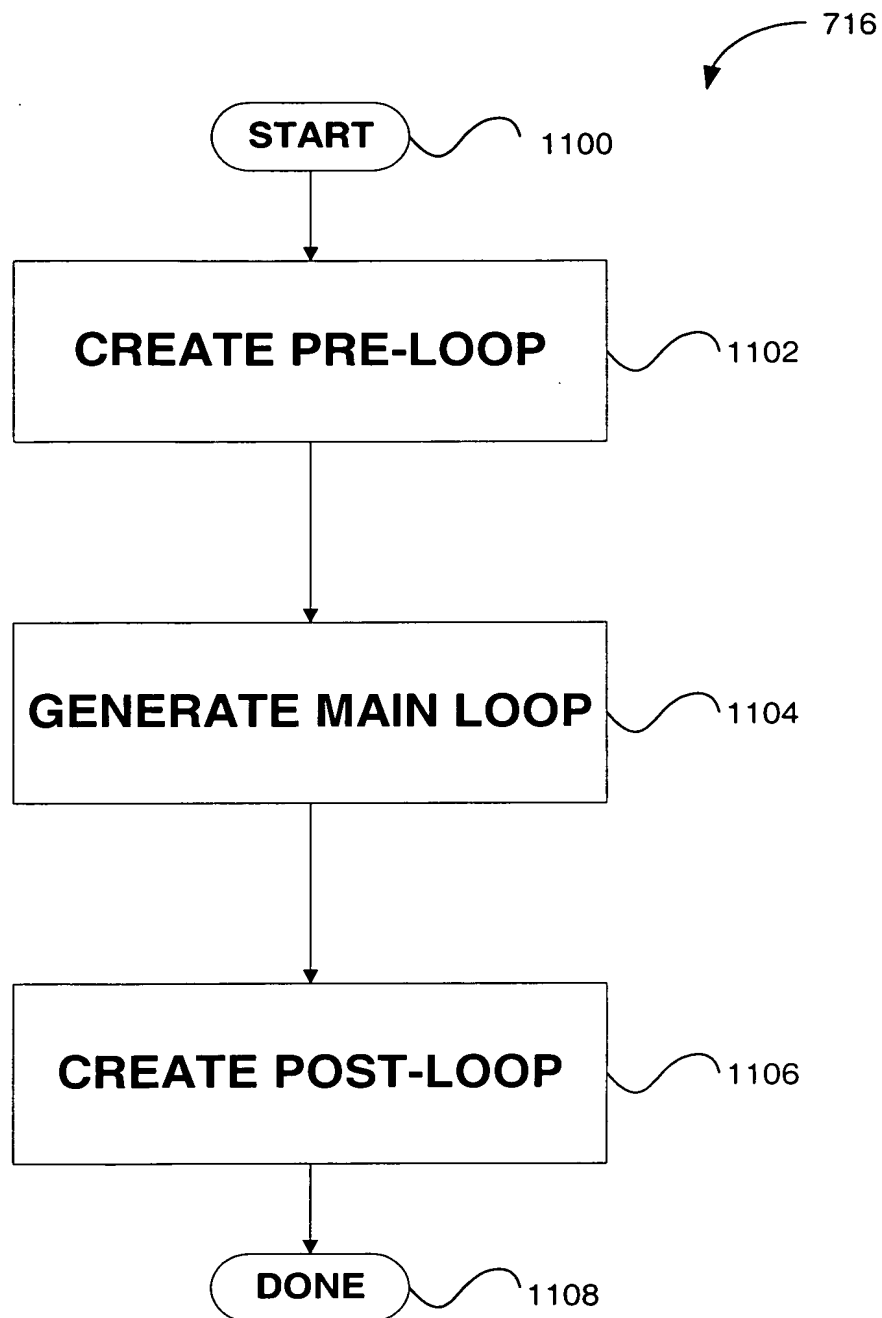
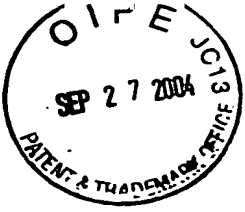


FIG. 11



1200

```
FOR ( i = x ; i < n; i++)  
{  
    SUM += A[i];  
    IF (p) {  
        SUM += A[i+1];  
    }  
}
```

802

FIG. 12



1002

```
FOR ( i = x ; i < 0; i++)  {  
    // Loop Body  
}
```

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FIG. 13

1004

```
FOR (   ; i < min(n, A.Length-1); i++)  
{  
    // Loop Body  
}
```

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FIG. 14

1006

```
FOR (   ; i < n; i++)  {  
    // Loop Body  
}
```

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FIG. 15